Claims:

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- 1. Optical fiber cable comprising:
 - (a) an optical fiber bundle comprising a plurality of longitudinally extending optical fibers,
- (b) an encasement having an essentially circular cross section encasing the plurality of longitudinally extending optical fibers.
 - 2. The optical fiber cable of claim 1 wherein the encasement is a polymer having an elastic modulus greater than 210 MPa at 23 $^{\circ}$ C.
 - 3. The optical fiber cable of claim 1 wherein the optical fiber bundle is selected from the group consisting essentially of:
 - a. 2 20 optical fibers randomly arranged, and
 - b. at least one optical fiber ribbon of at least 3 optical fibers, the optical fibers having centers c, with the centers c lying on a common axis.
 - 4. The optical fiber cable of claim 1 wherein the shrinkage of the optical fiber cable as measured by heating to 85 $^{\rm O}$ C is less than 40% of the shrinkage of the material forming the encasement as measured by heating to 85 $^{\rm O}$ C
 - 5. The optical fiber cable of claim 2 wherein the shrinkage of the optical fiber cable as measured by heating to 85 $^{\rm o}$ C is less than 20% of the shrinkage of the material forming the encasement as measured by heating to 85 $^{\rm o}$ C

- 6. The optical fiber cable of claim 1 additionally including an additional polymer layer over the encasement.
- 7. The optical fiber cable of claim 6 wherein the additional polymer layer has an
 elastic modulus greater than that of the primary encasement.
 - 8. The optical fiber cable of claim 1 wherein the minimum thickness of the encasement layer is in the range 3-15 mils.
- 9. The optical fiber cable of claim 1 wherein the encasement is low-density polyethylene.

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- 10. The optical fiber cable of claim 3 wherein the optical fiber bundle comprises2-20 randomly arranged fibers.
- 11. The optical fiber cable of claim 3 wherein the optical fiber bundle comprises at least 3 optical fibers with centers c on a common axis.
- 12. The optical fiber cable of claim 10 wherein each of the optical fibers is20 coated with an optical fiber coating, and the encasement contacts the optical fiber coating.
 - 13. The optical fiber cable of claim 11 wherein the optical fiber bundle has a

ribbon coating to form an optical fiber ribbon and the encasement contacts the ribbon coating.

- 14. The optical fiber cable of claim 13 comprising a plurality of stacked optical5 fiber ribbons.
 - 15. The optical fiber cable of claim 3 wherein the encasement is essentially void-free.
- 10 16. The optical fiber cable of claim 15 wherein each optical fiber in the 2-20 optical fibers bundle essentially contacts no more than two other optical fibers.